1st and Final Bill

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

61925

Serial No. Repairs and Maintenance of Anganwadi Buildings at ward No. 14

Name of work Pazhalagute. From ..... To .....

Name of Contractor of nature of Agency. KRIDL

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Est. cost = 10.00 Lakhs						
	Jobs code : 0114-18-000039		Pcode - 3329				
	A/S No : EE/DD/AS/634/17-18		dt. 21/12/2017				
	T/S No : EE/DD/TS/444/17-18		dt. 24/12/2017				
	W.O. No : EE/DD/WO/344/17-18		dt. 24/03/2018				
(1)	Excavation 1.5m and above in width in soft rocks without blasting for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches not exceeding 1.5m depth - stacking the						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Excavated stuff from edges & Excavation with lead upto 50m including cost of explosives, labours and tools & equipment complete as per specifications.						
	As per premeasurement Qty recorded in this MBal pg.No. 61976 vide st. No. (1) i.e.					31.50 Cum	
	@ Rate of 953.64/cum						= £ 30040/-
(2)	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 160kgs/m³ with 40mm and down size graded granite metal coarse aggregates @ 0.8 cum and F.A @ 0.4 cum machine mixed, Complete laid in layers not exceeding 15cms thick, well compacted, in foundation & plinth. including cost of all materials. Complete as per specifications						

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

61926

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	As per premeasurement Qty recorded in this MB at pg. no. 61976/2 vide it. no. ② - RE @ Rate ₹ 5256.36/cum					1.58 cum = ₹ 8279/- 8305=00	
③	providing and removing centering, shuttering, strutting propping etc. and removal of formwork for vertical surface such as walls at any thickness including attached pilasters Cost of all materials, labours complete as per specification As per premeasurement Qty recorded in this MB at pg. no. 61977/2 vide it. no. ③ . RE @ Rate ₹ 316.44/cum					69.758 cum = ₹ 22072/-	

Shadangi
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂ
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(4)	providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 220 kgs, with 20 mm and down size graded granite metal CA @ 0.84 cum and FA @ 0.56 cum machine mixed, concrete laid in layers not exceeding 15 cm thick, well compacted in foundation plinth & walls, including cost of materials, labour - complete as per specifications. As per premeasurement duly recorded in this MB at Pg. No. 61 & 62 vide it. No. (4) ie. @ Rate of 5704.56/ cum					10.46 cum = 59684/- 59669	
(5)	providing TMT steel reinforcement for RCC works including straightening, cutting, bending, hooking in placing in position, lapping, and welding wherever required						

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

61927

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design & including cost of materials, labours complete as per specifications.						
	As per premeasurement Qty recorded in this MB at Pg. no. 61977 vide it. no. (5)					1.21 tonnes	
	Qty limited to					1.00 tonnes	
	@ rate ₹ 60534/tn					₹ 60534/-	

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
⑥	Providing and laying four courses water proofing treatment with bitumen felt over roof consisting of first and third course of blown and a residual bitumen applied hot at 1.45 kg/sqm of area of each course second course of roofing felt type-3 grade 1 and forth and final course of stone grit 6mm and down size of pre seed gravel spread at 0.06cum/sqm including preparation of surface but excluding grading complete with bitumen felt complete as per specification						
		1	12.20	2.50		30.50	
		1	3.50	2.50		8.75	
		1	6.20	7.00		43.40	
					Total Qty	82.65 Sqm	
				@ Rate of	333.72/m2		= £ 27582/-

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
⑥	Providing and laying four courses water proofing treatment with bitumen felt over roof consisting of first and third course of blown and a residual bitumen applied hot at 1.45 kg/sqm of area of each course second course of roofing felt type-3 grade II and forth and final course of stone grit 6mm and down size of pre seed gravel spread at 0.06cum/sqm including preparation of surface but excluding grading complete with bitumen felt complete as per specification						
		1	12.20	2.50		30.50	
		1	3.50	2.50		8.75	
		1	6.20	7.00		43.40	
					Total qty	82.65 sqm	
				@ Rate of	333.33/m²		= £27'582/-

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

61928

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8
⑨	providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth cost & materials, labour complete as per specifications					
	Manjunath nagar	1	2.50	2.50	6.25	
		1	2.50	1.50	3.75	
		1	2.00	2.50	5.00	
		1	3.50	6.10	21.35	
		1	10.00	3.10	31.00	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Bagalagunte	1	8.00	3.10		24.80	
		1	9.00	3.10		27.90	
		2	8.50	3.10		52.70	
		2	2.50	3.10		15.50	
		2	21.50	3.10		133.30	
		3	6.50	4.00		78.00	
		2	3.00	1.50		9.00	
	Muniboodappa layout	2	2.00	2.50		10.00	
		1	19.00	3.00		58.90	
		2	2.80	3.10		17.36	
		2	12.00	3.10		74.40	
		2	3.00	3.10		18.60	
					Total sq	587.81 Sqm	

Rate ₹ 76.68/m2 = ₹ 45073/-

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

61929

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(8)	Providing flooring with 60cms x 60cms x 8 to with speed glazed tiles of approved quality of make, fixed on top of existing flooring with suitable adhesive, including cutting the tiles to the required size and fixing etc - Complete as per specifications						
	Manjunath nagar	1	4.00	4.00		16.00	
		1	5.00	3.00		15.00	
		1	3.00	3.00		9.00	
		1	4.00	7.00		28.00	
	Bugalagunte	2	3.00	3.00		18.00	
		2	2.00	3.00		12.00	

ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	3.00	2.00		12.00	C&FC
		2	6.00	4.00		48.00	
		2	6.00	4.00		48.00	
		2	3.00	1.50		9.00	
					Total Qty	215.00 Sqm	
				@ Rate of	1154.52/Sqm		= £ 248222/-
(9)	Black granite 40mm thick 208.						
		5	2.00	0.60		6.00	
		5	2.50	0.60		7.50	
		5	2.50	0.60		7.50	
					Total Qty	21.00 Sqm	
				@ Rate of	2295/Sqm		= £ 48195

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

61930

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(10)	providing ceramic tiles of size 300x300 mm x 6 mm approved make shade, and size for flooring, treads & steps and landings laid on bed of 12 mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing complete as per specifications.						
	Bagalagunte	1	7.50	1.20		9.00	
		1	4.00	1.20		4.80	
		1	1.20	1.20		1.44	
					Total Qty =	15.24 Sq m	
					@ Rate of ₹ 1270.00/Sq m	= ₹ 19356/-	

Shadaksharaiah
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(IV)	Providing and fixing MS grill work for windows and ventilators weighing 21 kg/Sqm using MS flats or MS square rods or combination of MS flats and Square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red oxide primer, cost of materials, fixtures, labour and use of machinery complete as per specifications.						
		1	1.20	0.90		1.08	
		1	1.20	0.90		1.08	
						2.16 Sqm	
						i.e 45.36 kgs	
			Qty limited to			40.00 kgs	
			@ Rate of ₹ 84.24/Sqm			= ₹ 3370/-	

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

61931

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(12)	providing and fixing in position aluminium windows and ventilators as approved drawing with Sliding Shutters using double faced window frame section & size 61.85 x 31.75 mm with 1.2 mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm thick weigh 0.659 kg/m, and shutter comprising top & bottom section & size 40mm X 18 mm, 1.25 mm thick 0.417 kg/m shutter outer side 40 mm x 18 mm. the shutters mounded on nylon roller with approved quality & fixtures. Complete as per specification						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	0.60	0.60		0.72	
				Total Qty		0.72 Sqm	
				@ Rate ₹ 4123.44/Sqm			= ₹ 2969/-
(13)	Providing and applying enamel paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labours, complete as per specification.						
		2 ~~3.60~~					
		2	7.70	3.10		47.74	
		2	13.20	7.70		189.42	
		2	3.00	1.50		9.00	
				Total Qty		246.16 Sqm	
				@ Rate ₹ 88.58/Sqm			= ₹ 21800/-

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

61932

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(14)	providing and laying to required line and slope roofing with semi-corrugated Cashebos cement Sheet 6mm thick fixed with galvanised iron J or L hooks, bolts and nuts 8mm dia CL Plain and bitumen washer over the existing purlins, rafters and trusses including cost & materials labour complete as per Specifications.						
	Bagalagunte	1	17.00	4.00		68.00	
					Total Qty	68.00 Sqm	
					@ Rs. 426.00/Sqm	= ₹ 29009/-	

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿ
ಟಿ.ಬಾಸರಪಳ್ಳಿ ಉಪ-ವಿಭ
ಬಾಗಲಗುಂಟೆ. ಬಿಬಿಎಂ
ಬೆಂಗಳೂರು

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(15)	providing and fixing cement sheet roofing with G.I J or hooks, bolts and nuts, dia G.I plain and bitumen washers, serrated or plain wings adjustable ridges, including cost of materials, labour Complete as per specifications.						
		2	17.00	1.20		40.80	
				Total Qty		40.80 Sqm	
				@ Rate of	351/ Sqm		= £ 14321/-
(16)	Fabricating, supplying and erecting M.S. Tubular truss of span 10m, The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and is between top and bottom bars, in areas of mid section is provided with 50x50x6mm						

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

61933

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Equal single angle for vertical and inclined member and at supporting ends 40 x 40 x 5 mm single angle is provided. All the members are welded together with 6mm gusset plate as per drawing. The lattice brass is anchored in RCC column by using 4 nos 20ϕ anchor bolts at each supp ort, with 10mm thick base plate and shoe plate. The work includes straightening, placing in position. including cost & all materials labour complete as per specification	2	10.00		68 kg/m. i.e.	20.00 mt 13600 kg	

@ Rate - ₹ 118.50/kg = ₹ 1615680/-

MEASUREMENT BOOK

	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
7	High quality Square 200 x 200 MS Steel pipe	4	3.20	(@ 45kg/m)		12.80m	
					iec	576.00 kgs	
			@ Rate	@ 41.04	/kg	= ₹ 23639/-	
8	providing and fixing chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plastic and brass threaded fittings including fixing the pipe with clamps at two mt spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of						

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

61934

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	cutting chase + making good the same including testing & joints complete.						
		1	60.00			60.00	
		1	60.00			60.00	
					Total Mtr	120.00 mtrs	
					@ Rate ₹ 275/mtr		₹33000/-
(19)	Submersible single phase	2.0 Hp / 1.5 KW					
		1				1 no.s	
					@ Rate ₹ 26300/no		₹26300/-

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತ
ಟಿ.ದಾಸರಹಳ್ಳಿ, ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(19)	providing PVC Storage tanks	2000				2000 Ltr	
				@ Rate of 5/ Ltr		= £ 10000/-	
(20)	CPVC Elbows 25mm	45				45 Nos	
				@ Rate of 40/ No		= £ ~~2250~~ 1800/-	
(21)	CPVC Tee 25mm	45				45 Nos	
				@ Rate of 50/ No		= £ 2250/-	
				Sub Total		= £ 8,99,073/-	
				Bridges, Floor charges (7+3+1) %		£ ~~89746~~ 98894/-	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬೆಂಗಳೂರು

p 3329

Audited and admitted for Rs. 997971-00

Passed by Cheque for Rs. 915888-00

( ) 82083-00

Serial No.

Name of work

Name of Contractor of nature of Agency.

Date of commencement of work.

by adjust

Accounts Superintendent

Asst. Executive Engineer

M. A. R. 57 (Rule 116) **No. D** 61935

Measurement Book

From To

Date	Full description, etc. of work	Number	Dimensions Length	Dimensions Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Certificate ① The work is done satisfactorily by Contractor ② The contractor has removed all debris from work spot ③ There is no departmental issues made by contractor. 25/5/2018					सहायक कार्यपालक अभियंता टी.दासरहळ्ळि उप-विभाग बागलगुंटे, बीबीएमपी ಬೆಂಗಳೂರು 25/5/18	